BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Maintenance of BBMP Drilled Borewells and Providing Pipeline in Ward No. 11, (Kuvempunagara) Vidyaranyapura Sub Division.

Estimated Cost : Rs. 8.00 Lakhs

Job Code: 011-22-000002

Head of Account : P-1802 Water Supply New Areas

Name of Agency: Sri Nataraj. T, No. 2, 1st Main Amar Jyothi Layout, Cholanagara, R T Nagar (Post), Bangalore - 560032.

Work order No: BBMP/EE/BTP/WO/45/2021-22 Dated: 07-03-2022.

	Measurements Recarded on :								
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
	A) Rewinding								
1	Lifting of Submersible pump set as per Specification and direction	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	1240.61	**11165.00**
2	Transportation of pumping machineries	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	1039.43	**9355.00**
3	Labour charges (over hauling)	Each							
	1. Mariyamma Block dead end		1				1		

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	2931.48	26383.00
4	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months.								
	D. Rewinding of motor of 10.0 HP	Each							
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
				Total Qty =			4		
				Qty Limited to =			4	4560.08	18240.00
5	**E. Rewinding of motor of 12.5 HP**	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			5	5096.56	25483.00
	B) Replacement of Motor Parts:								
6	Starter 5 HP (with one year Guarantee)	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	5302.53	47723.00
7	Rotor (with one year Guarantee)	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	3. Teachers Layout Entrance Koyas Factory oad		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	4957.65	44619.00
8	Upper Flange	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	383.20	3449.00
9	Lower Flange	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	383.20	3449.00
10	Upper Housing	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	693.59	6242.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	ower Housing	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	693.59	6242.00
12	**Carbon housing** Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad.	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	1089.25	9803.00
13	**C) Replacement of pump parts:** The following main components of submersible pump sets requiring replacement. Oil Seal	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	163.82	1474.00
14	Oil Seal Steel bush	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	163.75	1474.00
15	Guide vane	Each							
	1. Mariyamma Block dead end		30				30		
	2. Kalathur Layout near Mathkutti House		30				30		
	3. Teachers Layout Entrance Koyas Factory road		31				31		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		30				30		
	5. Srinidhi Layout 2nd B Cross		30				30		
	6. Singapura Govt School behind		32				32		
	7. Singapura Paradise		30				30		
	8. MS Palya Teachers Colony Reeja School		30				30		
	9. Jamamashida road MSPalya		31				31		
				Total Qty =			274		
				Qty Limited to =			270	429.69	116016.00
16	Impeller Shell moulded with aluminium Bronze	Each							
	1. Mariyamma Block dead end		30				30		
	2. Kalathur Layout near Mathkutti House		30				30		
	3. Teachers Layout Entrance Koyas Factory road		31				31		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		30				30		
	5. Srinidhi Layout 2nd B Cross		30				30		
	6. Singapura Govt School behind		32				32		
	7. Singapura Paradise		30				30		
	8. MS Palya Teachers Colony Reeja School		30				30		
	9. Jamamashida road MSPalya		31				31		
				Total Qty =			274		
				Qty Limited to =			270	653.36	176407.00
17	Discharge outlet (D.O) Bearing D.O Steel Bush	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	613.12	5518.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
18	Steel bush (D.O steel bush)	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	204.05	1836.00
19	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages)	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	1227.20	11045.00
20	Non – return valve (NRV) assembly complete with rubber 'O' Ring	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
				Total Qty =			9		
				Qty Limited to =			9	301.77	2716.00
21	Cable Guard	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
			Total Qty =				9		
			Qty Limited to =				9	168.61	1517.00
22	Brass Filter	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MSPalya		1				1		
			Total Qty =				9		
			Qty Limited to =				9	609.29	5484.00
23	Re-erection charges of pumping machineries including overhauling and pointing	Each							
	1. Mariyamma Block dead end		1				1		
	2. Kalathur Layout near Mathkutti House		1				1		
	3. Teachers Layout Entrance Koyas Factory road		1				1		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
	6. Singapura Govt School behind		1				1		
	7. Singapura Paradise		1				1		
	8. MS Palya Teachers Colony Reeja School		1				1		
	9. Jamamashida road MS Palya		1				1		
			Total Qty =				9		
			Qty Limited to =				9	1639.14	14752.00
	Other Parts								
24	Heavy Duty Collar 50 mm dia	Nos							
	6. Singapura Govt School behind		2				2		
	8. MS Palya Teachers Colony Reeja School		2				2		
			Total Qty =				4		
			Qty Limited to =				3	172.44	517.00
25	Providing Gate Valve 50 mm	Nos							
	3. Teachers Layout Entrance Koyas Factory road		3				3		
	7. Singapura Paradise		3				3		
			Total Qty =				6		
			Qty Limited to =				5	1724.40	8622.00
26	Submersible Cable 1x3x6.0 Sq.mm	M							

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	3. Teachers Layout Entrance Koyas Factory oad		1	12.00			12.00		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1	6.00			6.00		
	5. Srinidhi Layout 2nd B Cross		1	6.00			6.00		
	6. Singapura Govt School behind		1	15.00			15.00		
	8. MS Palya Teachers Colony Reeja School		1	9.00			9.00		
	9. Jamamashida road MS Palya		1	5.00			5.00		
				Total Qty =			53.00		
				Qty Limited to =			50.00	137.95	6898.00
27	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.	No.							
	16Sqmm								
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1				1		
	6. Singapura Govt School behind		1				1		
							2	258.66	517.00
28	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia,	No							
	1. Mariyamma Block dead end		1				1		
	5. Srinidhi Layout 2nd B Cross		1				1		
							2	2873.71	5747.00
29	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.	No.							
	32 Amps								
	2. Kalathur Layout near Mathkutti House		3				3		
	6. Singapura Govt School behind		3				3		
							6	166.69	1000.00
30	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete	Sq.Cm							

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	16SWG								
	Mariyamma Block dead end		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	4. Srinidhi Layout 8th D Main No. 41/2, Shatri House		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
	8. MS Palya Teachers Colony Reeja School		1x2	120.00	60.00		14400.00		
			1	360.00	30.00		10800.00		
							75600.00	0.34	**25704.00**
31	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strata by Manual Means .	Cum							
	Teachers Colony Main Road		1	30.00	0.60	0.60	10.80		
			1	30.00	0.60	0.60	10.80		
			1	30.00	0.60	0.60	10.80		
			1	12.00	0.60	0.60	4.32		
	Singapura Burial Ground		1	30.00	0.60	0.60	10.80		
			1	30.00	0.60	0.60	10.80		
			1	25.00	0.60	0.60	9.00		
	Simhadri Layout		1	30.00	0.60	0.60	10.80		
			1	30.00	0.60	0.60	10.80		
			1	14.00	0.60	0.60	5.04		
							93.96		
							93.60	251.00	**23494.00**
32	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,	Rmtr							
	75 mm dia 6 KSC PVC pipe								
	Teachers Colony Main Road		1	30.00			30.00		
			1	30.00			30.00		
			1	30.00			30.00		
			1	12.00			12.00		
	Singapura Burial Ground		1	30.00			30.00		
			1	30.00			30.00		
			1	25.00			25.00		
	Simhadri Layout		1	30.00			30.00		
			1	30.00			30.00		
			1	14.00			14.00		
							261.00		
							260.00	198.31	**51561.00**

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
33	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including watering, consolidation in layers of 15 cm thick including disposing of the sunplus earth with a lead of 200 mtrs	Cum							
			Qty. Vide Item No. 31				**93.60**	98.67	**9236.00**
	Sub Total								**683688.00**
	GST @ 12%								**82043.00**
								Total	**765731.00**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Contractor

Assistant Engineer

Assistant Executive Engineer